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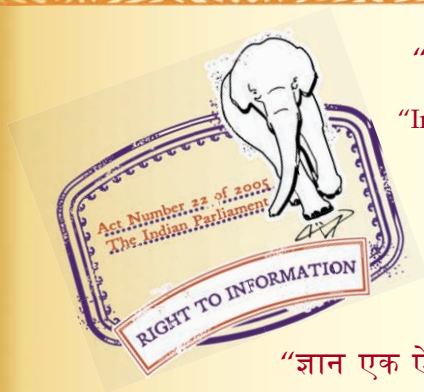
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IS 2671 (1964): Interlocked Milling Cutters [PGD 32:
Cutting tools]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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(Reaffirmed 2001)

Indian Standard

SPECIFICATION FOR INTERLOCKED MILLING CUTTERS

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SPECIFICATION FOR INTERLOCKED MILLING CUTTERS

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Indian Standard

SPECIFICATION FOR INTERLOCKED MILLING CUTTERS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 31 March 1964, after the draft finalized by the Small Tools Sectional Committee had been approved by the Engineering Division Council.

0.2 Interlocked milling cutters are generally used for slot milling. The cutters are very versatile in use as the width of the cutter may be varied between certain limits to mill slots having different tolerances or slightly different dimensions. The width of the cutter is varied by inserting spacers of suitable thicknesses between the two halves of the cutter.

0.3 This standard is one of a series of Indian Standards being prepared to cover the requirements of milling machine accessories. Other standards in this series are:

IS : 1830-1961 GENERAL REQUIREMENTS FOR MILLING CUTTERS

IS : 1831-1961 DIMENSIONS FOR MILLING CUTTERS

IS : 2169-1963 SPECIFICATION FOR MILLING ARBORS

IS : 2170-1963 SPECIFICATION FOR ACCESSORIES FOR MILLING ARBORS

IS : 2668-1964 SPECIFICATION FOR T-SLOT MILLING CUTTERS

IS : 2669-1964 SPECIFICATION FOR MILLING CUTTERS FOR WOODRUFF
KEYSLOTS

IS : 2670-1964 SPECIFICATION FOR THREAD MILLING CUTTERS (SHELL
TYPE)

0.4 In the preparation of this standard, considerable assistance has been derived from DIN 1891 : 1953 Slot Milling Cutter, Interlocked and Adjustable, issued by Deutscher Normenausschuss.

0.5 Wherever a reference to any Indian Standard appears in this specification, it shall be taken as a reference to the latest version of the standard.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing

the result of a test, shall be rounded off in accordance with IS : 2-1960 Rules for Rounding Off Numerical Values (*Revised*). The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

0.7 This standard is intended chiefly to cover the technical provisions relating to interlocked milling cutters, and it does not include all the necessary provisions of a contract.

1. SCOPE

1.1 This standard covers the dimensions and requirements for interlocked milling cutters.

2. DIMENSIONS

2.1 The dimensions and permissible deviations for interlocked milling cutters shall be as given in Table I.

2.2 The sides of the cutter shall run true to the axis within 0.04 mm.

2.3 For detailed dimensions of bores and keyways, see IS : 1831-1961 Dimensions for Milling Cutters.

2.4 All dimensions and details not specified in this standard shall be at the discretion of the manufacturer.

3. DESIGNATION

3.1 The designation of an interlocked milling cutter shall indicate:

- a) commonly used name,
- b) type A or type B,
- c) nominal diameter D ,
- d) width b ,
- e) tool type, and
- f) number of this standard.

3.1.1 An example of designation is given in Table I.

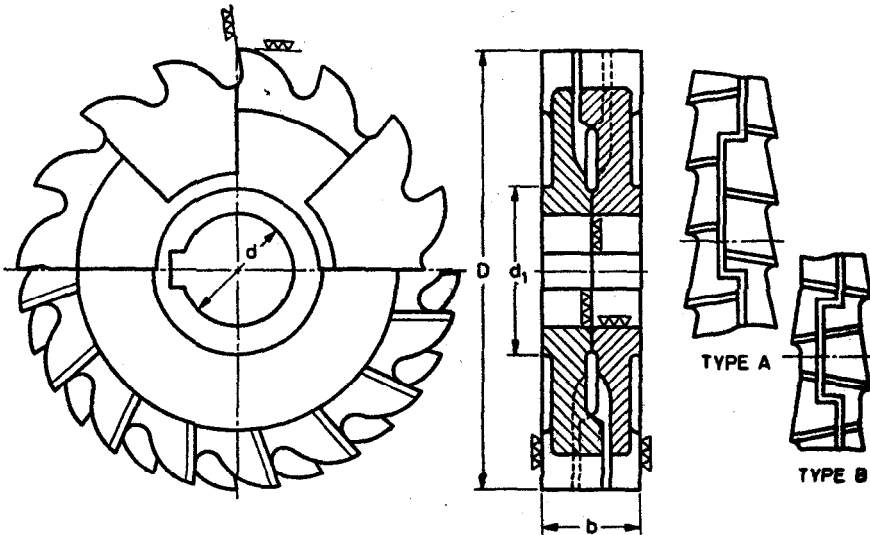
4. GENERAL REQUIREMENTS

4.1 Interlocked milling cutters shall comply with IS : 1830-1961 General Requirements for Milling Cutters.

TABLE I DIMENSIONS FOR INTERLOCKED MILLING CUTTERS

(Clauses 2.1 and 3.1.1)

All dimensions in millimetres.



NOMINAL DIAMETER D j16	d H7	d_1	b d11										*TOOL TYPE
			10	12	14	16	—	—	—	—	—	—	
(50)	16	26	10	12	14	16	—	—	—	—	—	—	N, H
63	22	34	—	12	14	16	18	—	—	—	—	—	
80	27	42	—	—	14	16	18	20	—	—	—	—	
100	32	48	—	—	—	16	18	20	22	25	—	—	
125	32	48	—	—	—	—	18	20	22	25	28	—	
160	40	58	—	—	—	—	—	20	22	25	28	32	
200	40	58	—	—	—	—	—	20	22	25	28	32	
†Possible Adjustment of b			1	1	1.5	2	2	2.5	3	3.5	3.5	4	

Non-preferred size in brackets.

Designation: An interlocked milling cutter of type A, having nominal diameter $D=80$ mm, width $b=18$ mm and tool type N shall be designated as:

Interlocked Milling Cutter A80×18N IS : 2671

*Tool type according to IS : 1830-1961.

†The values shown are the possible adjustment that may be obtained by inserting spacers between the two halves of the cutter.

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